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Term:	<input type="text"/>	
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Search

Clear

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### Search History

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	l4	3	<u>L5</u>
USPT	(l1 or l2) near5 l3	3	<u>L4</u>
USPT	dioxaoctane or (dioxa adj octane)	419	<u>L3</u>
USPT	diaminophenyloxy or bisdiaminophenyloxy or ((diamino or bisdiamino) adj phenyloxy)	6	<u>L2</u>
USPT	diaminophenoxy or bisdiaminophenoxy or ((diamino or bisdiamino) adj phenoxy)	171	<u>L1</u>

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L4: Entry 1 of 3

File: USPT

Jul 18, 2000

US-PAT-NO: 6090159

DOCUMENT-IDENTIFIER: US 6090159 A

TITLE: Oxidation dyeing composition for keratin fibers containing sarcosine oxidase

DATE-ISSUED: July 18, 2000

US-CL-CURRENT: 8/401; 8/406, 8/407, 8/408, 8/409, 8/410, 8/411, 8/412

APPL-NO: 9/ 308598

DATE FILED: May 21, 1999

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
FR	97/11824	September 23, 1997

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/FR98/01795	Aug 11, 1998	WO99/15139	Apr 1, 1999	May 21, 1999	May 21, 1999

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L4: Entry 2 of 3

File: USPT

Apr 28, 1998

US-PAT-NO: 5743919

DOCUMENT-IDENTIFIER: US 5743919 A

TITLE: Isatin derivatives for coloring keratin-containing fibers

DATE-ISSUED: April 28, 1998

US-CL-CURRENT: 8/409; 8/405, 8/407, 8/423, 8/563, 8/574

APPL-NO: 8/ 716207

DATE FILED: September 17, 1996

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	44 09 143.5	March 17, 1994

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP95/00848	Mar 8, 1995	WO95/24886	Sep 21, 1995	Sep 17, 1996	Sep 17, 1996

**WEST****End of Result Set**

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L4: Entry 3 of 3

File: USPT

Apr 1, 1997

US-PAT-NO: 5616150

DOCUMENT-IDENTIFIER: US 5616150 A

TITLE: Isatin-containing formulations for coloring keratin-containing fibers

DATE-ISSUED: April 1, 1997

US-CL-CURRENT: 8/405; 8/409, 8/423, 8/574, 8/618

APPL-NO: 8/ 535261

DATE FILED: October 30, 1995

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	43 14 317.2	April 30, 1993

## PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/EP94/01246	Apr 21, 1994	WO94/24988	Nov 10, 1994	Oct 30, 1995	Oct 30, 1995

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**Search Results - Record(s) 1 through 3 of 3 returned.**

☐ 1. Document ID: US 6090159 A

L5: Entry 1 of 3

File: USPT

Jul 18, 2000

DOCUMENT-IDENTIFIER: US 6090159 A

TITLE: Oxidation dyeing composition for keratin fibers containing sarcosine oxidase

BSPR:

Among the double bases of formula (II) above, mention may be made more particularly of

N,N'-bis(.beta.-hydroxyethyl)-N,N'-bis(4'-aminophenyl)-1,3-diaminopropanol ,  
N,N'-bis(.beta.-hydroxyethyl)-N,N'-bis(4'-aminophenyl)ethylenediamine,  
N,N'-bis(4-aminophenyl)tetramethylenediamine, N,N'-bis  
(.beta.-hydroxyethyl)-N,N'-bis(4-aminophenyl)tetramethylenediamine,  
N,N'-bis(4-methylaminophenyl)tetramethylenediamine,  
N,N'-bis(ethyl)-N,N'-bis(4'-amino-3'-methylphenyl)ethylenediamine and  
1,8-bis(2,5-diaminophenoxy)-3,5-dioxaoctane, and the addition salts thereof with  
an acid.

BSPR:

Among these double bases of formula (II),  
N,N'-bis(.beta.-hydroxyethyl)-N,N'-bis(4'-aminophenyl)-1,3-diaminopropanol and  
1,8-bis(2,5-diaminophenoxy)-3,5-dioxaoctane, or one of the addition salts thereof  
with an acid, are particularly preferred.

CLPR:

13. The ready-to-use composition of claim 4, wherein said double bases are chosen  
from N,N'-bis(.beta.-hydroxyethyl)-N,N'-bis(4'-aminophenyl)-1,3-diaminopropanol ,  
N,N'-bis(.beta.-hydroxyethyl)-N,N'-bis(4'-aminophenyl)ethylenediamine,  
N,N'-bis(4-aminophenyl)tetramethylenediamine,  
N,N'-bis(.beta.-hydroxyethyl)-N,N'-bis(4-aminophenyl)tetramethylenediamine ,  
N,N'-bis(4-methylaminophenyl)tetramethylenediamine,  
N,N'-bis(ethyl)-N,N'-bis(4'-amino-3'-methylphenyl)ethylenediamine and  
1,8-bis(2,5-diaminophenoxy)-3,5-dioxaoctane, and acid addition salts thereof.

CLPR:

14. The ready-to-use composition of claim 13, wherein said double bases are  
chosen from  
N,N'-bis(.beta.-hydroxyethyl)-N,N'-bis(4'-aminophenyl)-1,3-diaminopropanol ,  
1,8-bis(2,5-diaminophenoxy)-3,5-dioxaoctane, and acid addition salts thereof.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5743919 A

L5: Entry 2 of 3

File: USPT

Apr 28, 1998

DOCUMENT-IDENTIFIER: US 5743919 A

TITLE: Isatin derivatives for coloring keratin-containing fibers

## DEPR:

Coloring formulations in which the aromatic amine of formula III is 1,3-bis-(2,4-diaminophenoxy)-propane, 1,8-bis-(2,5-diaminophenoxy)-3,6-dioxaoctane or 4,4'-diaminodiphenylamine are preferred.

## CLPR:

8. A process as in claim 7 wherein said aromatic amine corresponding to formula (IV) is selected from 1,3-bis-(2,4-diaminophenoxy)-propane, 1,8-bis-(2,5-diaminophenoxy)-3,6-dioxaoctane and 4,4'-diaminodiphenylamine.

## CLPR:

20. A composition as in claim 19 wherein said aromatic amine corresponding to formula (IV) is selected from 1,3-bis-(2,4-diaminophenoxy)-propane, 1,8-bis-(2,5-diaminophenoxy)-3,6-dioxaoctane and 4,4'-diaminodiphenylamine.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 3. Document ID: US 5616150 A

L5: Entry 3 of 3

File: USPT

Apr 1, 1997

DOCUMENT-IDENTIFIER: US 5616150 A

TITLE: Isatin-containing formulations for coloring keratin-containing fibers

## BSPU:

the dianiline derivatives of formula IV defined above under f) are selected from 4,4'-diaminostilbene, 4,4'-diaminostilbene-2,2'-disulfonic acid, 4,4'-diaminodiphenyl methane, 4,4'-diaminodiphenyl sulfide, 4,4'-diaminodiphenyl sulfoxide, 4,4'-diaminobenzophenone, 4,4'-diaminobenzodiphenyl ether, 3,3',4,4'-tetraaminodiphenyl, 3,3',4,4'-tetraaminobenzophenone, 1,3-bis-(2,4-diaminophenoxy)-propane, 1,8-bis-(2,5-diaminophenoxy)-3,6-dioxaoctane,

## CLPR:

6. The composition of claim 1 wherein said component (b)(v) is selected from the group consisting of 4,4'-diaminostilbene, 4,4'-diaminostilbene-2,2'-disulfonic acid, sodium salt, 4,4'-diaminodiphenyl methane, 4,4'-diaminodiphenyl sulfide, 4,4'-diaminodiphenyl sulfoxide, 4,4'-diaminodiphenylamine, 4,4'-diaminobenzophenone, 4,4'-diaminobenzodiphenyl ether, 3,3',4,4'-tetraaminodiphenyl, 3,3',4,4'-tetraaminobenzophenone, 1,3-bis-(2,4-diaminophenoxy)-propane, 1,8-bis-(2,5-diaminophenoxy)-3,6-dioxaoctane, and mixtures thereof.

## CLPR:

16. The process of claim 11 wherein said component (b)(v) is selected from the group consisting of 4,4'-diaminostilbene, 4,4'-diaminostilbene-2,2'-disulfonic acid, sodium salt, 4,4'-diaminodiphenyl methane, 4,4'-diaminodiphenyl sulfide, 4,4'-diaminodiphenyl sulfoxide, 4,4'-diaminodiphenylamine, 4,4'-diaminobenzophenone, 4,4'-diaminobenzodiphenyl ether, 3,3',4,4'-tetraaminodiphenyl, 3,3',4,4'-tetraaminobenzophenone, 1,3-bis-(2,4-diaminophenoxy)-propane, 1,8-bis-(2,5-diaminophenoxy)-3,6-dioxaoctane, and mixtures thereof.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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Term	Documents
4.USPT.	3

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Display

10

Documents, starting with Document:

3

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